**Name of Work:-** Improvements of Roads,Drains, Footpath and Parks in ward no 08 .( Package includes 11 works of Rs 1010 Lakhs)

**AGENCY:-** M/s Karthik Enterprises

**Estimated cost:** 1010.00 Lakhs

**Amount put to Tender:** 9,69,80,738.26

**Job Code / Indent No :-** 008-17-000035, 008-17-000036, 008-17-000037, 008-17-000038, 008-17-000039, 008-17-000040, 008-17-000041, 008-17-000042, 008-17-000043, 008-17-000044, 008-17-000045,

**Agreement No.** EE/BTPBBMP/E-PMT/22/2016-17 . Date: 09.032017

**Accepted Tendered Amount :** 10,17,01,384.78

**Head of Account :** P3158 SIP Infrastructure Project Works.

**EIRL (PWD CSR 2018-19)**

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | CSR 2018-19 | | | | | | | | |
| EIRL-1 | Removing and refixing of existing chainlink fencing.(Approved copy enclosed) | m | 1,139.50 | 235.00 | 2,67,782.50 | Yes | No | Data Rate | |
| EIRL-2 | Removing and refixing of existing poles.(Approved copy enclosed) | m | 645.00 | 210.00 | 1,35,450.00 | Yes | No | Data Rate | |
| EIRL-3 | KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(P.No.150 I.No.19.97 of PW,P&IWTD SR of 2018-19) | Quintal | 35.80 | 8,755.96 | 3,13,454.45 | Yes | No | (Page no 150 , Item no 19.97 CSR 2018-19) | |
| EIRL-4 | KSRRB M800-Portable barricade in construction zone KSRRB M800-43. Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications. Item No 24.44 PWD SR 18-19. | Each | 740.00 | 3,033.58 | 22,44,848.13 | Yes | No | (Page no 187 , Item no 24.44 CSR 2018-19) | |
| EIRL-5 | KSRRB 300-6. Excavation soft rock without blasting for formation of roads including stacking neatly, to uniform line and level including cost of explosives, labour, HOM of machineries and equipments complete as per specifications. (with all lead and lift) MORTH / Chapter 3. PWD SR 2018-19. Item No 19.6 | Cum | 369.00 | 1,532.63 | 5,65,539.45 | Yes | No | (Page no 143 , Item no 19.6 CSR 2018-19) | |
| EIRL-6 | KSRB15-3.5 : Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No. 112, I.No. 15.13 of PWD SR 2018-19 | Sq-m | 411.60 | 269.25 | 1,10,821.38 | Yes | No | (Page no 115 , Item no 15.13 CSR 2018-19) | |
| EIRL-7 | KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. Page No. 117 / Item No. 15.53.2, SR 2018-19 | Sq-m | 411.60 | 124.27 | 51,148.33 | Yes | No | (Page no 120 , Item no 15.53.2 CSR 2018-19) | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-8 | KSRB 14.6-2: Providing & laying heavy duty cobble stones 75mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19) | Sq-m | 563.36 | 1,352.32 | 7,61,846.46 | Yes | No | (Page no 103 , Item no 14.6 CSR 2018-19) | |
| EIRL-9 | Crushed Coarse aggregate,( Supply of hand broken aggregates ) 100mm and down size Item No 37, Code 0912, Page No II (Material Rate) PWD SR 2018-19. | cum | 478.48 | 1,541.34 | 7,37,493.30 | Yes | No | (Page no II , Item no 0912 CSR 2018-19) | |
| EIRL-10 | Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.PWD SR 2018-19. Item No 20.5 | Cum | 1,353.00 | 2,292.85 | 31,02,225.15 | Yes | No | (Page no 153 , Item no 20.5 CSR 2018-19) | |
| EIRL-11 | KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and -do- with OPC at 420 kg/cum and coarse aggregate 0.64cum, fine aggregate 0.36cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. item no 22.1.2, Page No 174. PWD SR 2018-19 | Cum | 119.62 | 4,465.09 | 5,34,109.18 | Yes | No | (Page no 174 , Item no 22.1.2 CSR 2018-19) | |
| EIRL-12 | Providing barbed GI wire fencing of 12x12 gauge drawn into stone pillars or iron pillars including drawing in holes wherever necessary excluding the cost of pillars but including the cost of barbed wire and binding wire etc., complete. (P.No.266 I.No.37.5 of PW,P&IWTD SR of 2018-19) | m | 392.00 | 38.99 | 15,282.41 | Yes | No | (Page no 266 , Item no 37.5 CSR 2018-19) | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-13 | Supply & Fixing of Pull Down chalenger Metal : All Tubular steel f'2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L W H): 2570 805 2685 mm. Weight: 85.4 kg. Safety Area:6287* 4858 mm Capacity 2 Persons. | Each | 1.00 | 2,40,000.00 | 2,40,000.00 | Yes | No | Data Rate | |
| EIRL-14 | Supply & Fixing of Seated Chest Press : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All meta are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in cordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to 8 EN16630 and the maintenance guide. Safety: All products must tested and certified to neet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L*W*H): 1955 733 2058 mm. Weight: 86.6 kg. Safety Area : 5545* 4470 mm Capacity 2 Persons | Each | 1.00 | 2,30,000.00 | 2,30,000.00 | Yes | No | Data Rate | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-15 | Supply & Fixing of Elliptical Cross Trainer: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all Sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. SizeJ L W* H: 1267 * 582* 1764 mm. Weight: 43.5 kg. Safety Area: 4322 3632 mm Capacity 1 Persons | Each | 1.00 | 1,40,000.00 | 1,40,000.00 | Yes | No | Data Rate | |
| EIRL-16 | Supply & Fixing of Rider Metal All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings Maintenance-free ball bearings . Scope of delivery 1 completely pre - assembled equipment modules Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size_L*W*H): 910 655 1270 mm. Weight: 29.5 kg. Safety Area 3310 3000 mm Capacity Persons | Each | 1.00 | 90,000.00 | 90,000.00 | Yes | No | Data Rate | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-17 | Supply & Fixing of Bicycle. Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles . Bearings Maintenance-free ball bearings . Scope of delivery: 1.completely pre -assembled equipment modules Maintenance Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN 16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size L*W*H): 1000*498*1290 mm .Weight: 51.5 kg. Safty Area 3400*3498 mm Capacity I Persons | Each | 1.00 | 1,25,000.00 | 1,25,000.00 | Yes | No | Data Rate | |
| EIRL-18 | Supply & Fixing of Arm & Pedal Bike Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL n in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size.L*W*H: 830*500*1450 mm. Weight: 32 kg. Safety Area : 3830*2900 mm Capacity. I Persons | Each | 1.00 | 1,70,000.00 | 1,70,000.00 | Yes | No | Data Rate | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-19 | Supply & Fixing of HD Sit Up Station Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joint are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel -Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL sokátion in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber : High quality ip rubber is used for the handles . Bearings : Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party: All products must clearly display the GS mark as has been issued in the EN 16630 safety) certificates. Size _L*W*H): 1412*1366*650 mm Weight : 42.6 kg Safety Area | Each | 1.00 | 1,25,000.00 | 1,25,000.00 | Yes | No | Data Rate | |
| EIRL-20 | Supply & Fixing of HD mini Ski Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide . Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been. | Each | 1.00 | 1,60,000.00 | 1,60,000.00 | Yes | No | Data Rate | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-21 | Supply & Fixing of HD Squat Pushing Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles Bearings Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark -EN16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L *W * H): 2270 * 635* 1640 mm. Weight: 60.2 kg. Safety Area 5300 * 3685 mm Capacity_2 Persons. | Each | 1.00 | 2,15,000.00 | 2,15,000.00 | Yes | No | Data Rate | |
| EIRL-22 | Providing children play standred spring duck Equipment : The system consists of and FRP coloured duck rocking on 10mm dia heavy duty coiled spring including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead , lift, loading , unloading and any other incidental charges and as per the drawing and specifiactins and direction of he engineer in charge of the work. | Each | 1.00 | 36,000.00 | 36,000.00 | Yes | No | Data Rate | |
| EIRL-23 | Providing Children play Standerd Duck Wheel Equipment : This is a Micro Revolver made up of an 4 feet diameter platform with 1.5mm thick Aluminium Chequered plate supported well two Nos of ball bearings. 2 nos LDPE ducks and 1 No of plastic sheet flat seats, all supported to vertical pillars of size 25mm NB pipes. All pipes are of ISI grades. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromae yellow Oxide including fixing the play equipments in CC 1:2:4 curing etc /. Complete with all lead , lift loading and unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer in chrage of the work. | Each | 1.00 | 68,000.00 | 68,000.00 | Yes | No | Data Rate | |
| EIRL-24 | Providing children play two seater standred swing equipment : This swing consist of 2 nos seat of powder coated of size 500mmx250mm x16SWG supported by M S chains of length 18mtrs each seat is suspended by 1 lines of chains. The chains are supported by circular housing with bearing from which the chain is suspended. The main beam is of 50mm MS 'A' class pipe. Size of MS chain 30mm X20mm X5mm thick, the lengh the main beam is 2.4mtrs and height of 2.00mtrs. 2 Nos of cast iron heads. Four footing are in 42 mm pipes. All pipes are ISI Grade, All the pipes are painted with two coats of SUpwe set of paint Over a coat of Protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4 curing Etc,, complete with all lead, lift loading and any other incidental charges and as per the drawing and specification and direction ofthe engineer in charge. | Each | 1.00 | 56,000.00 | 56,000.00 | Yes | No | Data Rate | |

| Sl No | Dscription of Item | Unit | Qty | Rate | Amount | Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender | Whether the Extra item is in the sanctioned Estimate | Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| EIRL-25 | Providing and fixing standard slide of approved quality and design as per the drawing and specification and direction of the Engineer in chrage of the work. | Each | 1.00 | 56,000.00 | 56,000.00 | Yes | No | Data Rate | |
| EIRL-26 | Lead for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading. From10.00 to 13.30 kms (Pg132, 1-2) | Cum | 162.05 | 110.56 | 17,916.25 | Yes | No | (Page no 132 , Item no 19.97 CSR 2018-19) | |
| | | | | | 1,05,68,916.98 | | | | |

| | |
|---|---|
| Estimate Cost | 9,69,80,738.26 |
| Tender Amount | 10,17,01,384.78 |
| Total EIRL Amount | 1,05,68,916.98 |
| Percentage of EIRL Amount Compared to Tender Amount | **10.39%** |

| Percentage excess over the Amount put to Tender = | | | |
|---|---|---|---|
| EIRL Amount | **1,05,68,916.98** | **10.39** | **% age** |
| Amount put to tender | **10,17,01,384.78** | | |

TEXAS CONSULTANTS

Consultant

Assistant Engineer

Assistant Executive Engineer
Byatarayanapura Division
B.B.M.P

Executive Engineer
Byatarayanapura Division
B.B.M.P

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.

**Name of Work:-** Improvements of Roads,Drains, Footpath and Parks in ward no 08 .( Package includes 11 works of Rs 1010 Lakhs)

**AGENCY:-** M/s Karthik Enterprises

**Estimated cost:** 1010.00 Lakhs

**Amount put to Tender:** 9,69,80,738.26

**Job Code / Indent No :-** 008-17-000035, 008-17-000036, 008-17-000037, 008-17-000038, 008-17-000039, 008-17-000040, 008-17-000041, 008-17-000042, 008-17-000043, 008-17-000044, 008-

**Agreement No.** EE/BTPBBMP/E-PMT/22/2016-17 . Date: 09.032017

**Accepted Tendered Amount :** 10,17,01,384.78

**Head of Account :** P3158 SIP Infrastructure Project Works.

## EIRL RATE ANALYSIS (PWD CSR 2018-19)

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **CSR 2016-17 & 2018-19** | | | | | | | | | | |
| **EIRL-1** | | | Removing and refixing of existing chainlink fencing.(Approved copy enclosed) | m | Data Rate | | | | | | | | **235.00** |
| **EIRL-2** | | | Removing and refixing of existing poles.(Approved copy enclosed) | m | Data Rate | | | | | | | | **210.00** |
| **EIRL-3** | **150** | **19.97** | KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(P.No.150 I.No.19.97 of PW,P&IWTD SR of 2018-19) | Quintal | 7,187.00 | | 7,187.00 | 431.22 | 7,618.22 | 914.19 | 8,532.41 | 223.55 | **8,755.96** |
| **EIRL-4** | **187** | **24.44** | KSRRB M800-Portable barricade in construction zone KSRRB M800-43. Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications. Item No 24.44 PWD SR 18-19. | Each | 2,490.00 | | 2,490.00 | 149.40 | 2,639.40 | 316.73 | 2,956.13 | 77.45 | **3,033.58** |
| **EIRL-5** | **143** | **19.6** | KSRRB 300-6. Excavation soft rock without blasting for formation of roads including stacking neatly, to uniform line and level including cost of explosives, labour, HOM of machineries and equipments complete as per specifications. (with all lead and lift) MORTH / Chapter 3. PWD SR 2018-19. Item No 19.6 | Cum | 1,201.00 | 57.00 | 1,258.00 | 75.48 | 1,333.48 | 160.02 | 1,493.50 | 39.13 | **1,532.63** |
| **EIRL-6** | **115** | **15.13** | KSRB15-3.5 : Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No. 112, I.No. 15.13 of PWD SR | Sq-m | 221.00 | | 221.00 | 13.26 | 234.26 | 28.11 | 262.37 | 6.87 | **269.25** |
| **EIRL-7** | **120** | **15.53.2** | KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. Page No. 117 / Item No. 15.53.2, SR 2018-19 | Sq-m | 102.00 | | 102.00 | 6.12 | 108.12 | 12.97 | 121.09 | 3.17 | **124.27** |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EIRL-8 | 103 | 14.6 | KSRB 14.6-2: Providing & laying heavy duty cobble stones 75mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19) | Sq-m | 1,110.00 | | 1,110.00 | 66.60 | 1,176.60 | 141.19 | 1,317.79 | 34.53 | **1,352.32** |
| EIRL-9 | II | 0912 | Crushed Coarse aggregate,( Supply of hand broken aggregates ) 100mm and down size Item No 37, Code 0912, Page No II (Material Rate) PWD SR 2018-19.<br><br>Basic Rate - 1054.29<br>Add 10% contractor profit - 105.43<br>Add 10% Over Head Charges - 105.43<br>Total - 1265.15 | cum | 1,265.15 | | 1,265.15 | 75.91 | 1,341.06 | 160.93 | 1,501.99 | 39.35 | **1,541.34** |
| EIRL-10 | 153 | 20.5 | Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.PWD SR 2018-19. Item No 20.5 | Cum | 1,882.00 | | 1,882.00 | 112.92 | 1,994.92 | 239.39 | 2,234.31 | 58.54 | **2,292.85** |
| EIRL-11 | 174 | 22.1.2 | KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and -do- with OPC at 420 kg/cum and coarse aggregate 0.64cum, fine aggregate 0.36cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. item no 22.1.2, Page No 174. PWD SR 2018-19 | Cum | 3,665.00 | | 3,665.00 | 219.90 | 3,884.90 | 466.19 | 4,351.09 | 114.00 | **4,465.09** |
| EIRL-12 | 266 | 37.5 | Providing barbed GI wire fencing of 12x12 gauge drawn into stone pillars or iron pillars including drawing in holes wherever necessary excluding the cost of pillars but including the cost of barbed wire and binding wire etc., complete. (P.No.266 I.No.37.5 of PW,P&IWTD SR of 2018-19) | m | 32.00 | | 32.00 | 1.92 | 33.92 | 4.07 | 37.99 | 1.00 | **38.99** |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add Tax (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EIRL-13 | | | Supply & Fixing of Pull Down chalenger Metal : All Tubular steel f'2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L W H): 2570 805 2685 mm. Weight: 85.4 kg. Safety Area:6287* 4858 mm Capacity_2 Persons. | | Data Rate | | | | | | | | 2,40,000.00 |
| EIRL-14 | | | Supply & Fixing of Seated Chest Press : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All meta are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in cordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to 8 EN16630 and the maintenance guide. Safety: All products must tested and certified to neet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L*W*H): 1955 733 2058 mm. Weight: 86.6 kg. Safety Area : 5545* 4470 mm Capacity_2 Persons | | Data Rate | | | | | | | | 2,30,000.00 |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EIRL-15 | | | Supply & Fixing of Elliptical Cross Trainer: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all Sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. SizeJ L W* H: 1267 * 582* 1764 mm. Weight: 43.5 kg. Safety Area: 4322 3632 mm Capacity_ I Persons | | Data Rate | | | | | | | | 1,40,000.00 |
| EIRL-16 | | | Supply & Fixing of Rider Metal All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings Maintenance-free ball bearings . Scope of delivery 1 completely pre -assembled equipment modules Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size_L*W*H): 910 655 1270 mm. Weight: 29.5 kg. Safety Area 3310 3000 mm Capacity Persons | | Data Rate | | | | | | | | 90,000.00 |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
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| EIRL-17 | | | Supply & Fixing of Bicycle. Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles . Bearings Maintenance-free ball bearings . Scope of delivery: 1.completely pre -assembled equipment modules Maintenance Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN 16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size L*W*H): 1000*498*1290 mm .Weight: 51.5 kg. Safty Area 3400*3498 mm Capacity I Persons | | Data Rate | | | | | | | | 1,25,000.00 |
| EIRL-18 | | | Supply & Fixing of Arm & Pedal Bike Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL n in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size.L*W*H: 830*500*1450 mm. Weight: 32 kg. Safety Area : 3830*2900 mm Capacity I Persons | | Data Rate | | | | | | | | 1,70,000.00 |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EIRL-19 | | | Supply & Fixing of HD Sit Up Station Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joint are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel -Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL sokátion in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber : High quality ip rubber is used for the handles . Bearings : Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party: All products must clearly display the GS mark as has been issued in the EN 16630 safety) certificates. Size _L*W*H): 1412*1366*650 mm. Weight : 42.6 kg. Safety Area. | | Data Rate | | | | | | | | 1,25,000.00 |
| EIRL-20 | | | Supply & Fixing of HD mini Ski Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide . Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been | | Data Rate | | | | | | | | 1,60,000.00 |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
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| EIRL-21 | | | Supply & Fixing of HD Squat Pushing Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles Bearings Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark -EN16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L *W * H): 2270 * 635* 1640 mm. Weight: 60.2 kg. Safety Area 5300 * 3685 mm Capacity_2 Persons. | | Data Rate | | | | | | | 2,15,000.00 |
| EIRL-22 | | | Providing children play standred spring duck Equipment : The system consists of and FRP coloured duck rocking on 10mm dia heavy duty coiled spring including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead , lift, loading , unloading and any other incidental charges and as per the drawing and specifiactins and direction of he engineer in charge of the work. | | Data Rate | | | | | | | 36,000.00 |
| EIRL-23 | | | Providing Children play Standerd Duck Wheel Equipment : This is a Micro Revolver made up of an 4 feet diameter platform with 1.5mm thick Aluminium Chequered plate supported well two Nos of ball bearings. 2 nos LDPE ducks and 1 No of plastic sheet flat seats, all supported to vertical pillars of size 25mm NB pipes. All pipes are of ISI grades. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromae yellow Oxide including fixing the play equipments in CC 1:2:4 curing etc /. Complete with all lead , lift loading and unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer in chrage of the work. | | Data Rate | | | | | | | 68,000.00 |

| Sl No | Page | Item | Dscription. | Unit | Basic Rate | Lift charges | Sub Total | AW @ 6% | Total | GST 12% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
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| EIRL-24 | | | Providing children play two seater standred swing equipment : This swing consist of 2 nos seat of powder coated of size 500mmx250mm x16SWG supported by M S chains of length 18mtrs each seat is suspended by 1 lines of chains. The chains are supported by circular housing with bearing from which the chain is suspended. The main beam is of 50mm MS 'A' class pipe. Size of MS chain 30mm X20mm X5mm thick, the lengh the main beam is 2.4mtrs and height of 2.00mtrs. 2 Nos of cast iron heads. Four footing are in 42 mm pipes. All pipes are ISI Grade, All the pipes are painted with two coats of SUpwe set of paint Over a coat of Protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4 curing Etc,, complete with all lead, lift loading and any other incidental charges and as per the drawing and specification and direction ofthe engineer in charge. | | Data Rate | | | | | | | | 56,000.00 |
| EIRL-25 | | | Providing and fixing standard slide of approved quality and design as per the drawing and specification and direction of the Engineer in chrage of the work. | | Data Rate | | | | | | | | 56,000.00 |
| EIRL-26 | | | Lead for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading. From10.00 to 13.30 kms (Pg132, 1-2) | | 68.00 | 22.75 | 90.75 | 5.45 | 96.20 | 11.54 | 107.74 | 2.82 | 110.56 |

TEJUS CONSULTANTS

Consultant

Assistant Engineer

Assistant Executive Engineer
Byatarayanapura Division
B.B.M.P

Executive Engineer
Byatarayanapura Division
B.B.M.P

* APPROVED DATA RATE TO BE ENCLOSED

**BRUHAT BANGALORE MAHANAGAR PALIKE**

**BYATARAYANAPURA DIVISION**

**Project: Improvements to Road,Drain and Footpath and Park in Ward No.8(Package includes 11 works of Rs 1010Lakhs)**

**AGENCY:- M/s Karthik Enterprises**

**Estimated cost: 1010 Lakhs**

**Amount put to Tender as per Sanction : 9,69,80,738.26**

**Tender Notification Number :- EE/BTP/BBMP/E-PMT/22/2016-17 Date: 09.03.2017**

**Accepted Tendered Amount : 10,17,01,384.78**

**Head of Account : P3158 SIP Infrastructure Projects Works**

**RATE ANALYSIS -Work Slip- WORKS (PWD CSR 2016-17)**

| Sl No | Item Code | Page No | Dscription. | Unit | Basic Rate | Lift charges | Total | AW @ 6% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18.20 | 137 | KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 (P.No.137, I.No.18.20 of PW,P&IWTD SR 2016-17) | Cum | 345.00 | 94.81 | 439.81 | 26.39 | 466.20 | 12.21 | 478.42 |
| 7 | 4.28 | 15 | KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17) | Sq-m | 231.00 | | 231.00 | 13.86 | 244.86 | 6.42 | 251.28 |
| 15 | 5.26.2 | 24 | KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(P.No.24, I.No.5.26.2 of PW, P&IWTD SR 2016-17) | Sq-m | 907.00 | | 907.00 | 54.42 | 961.42 | 25.19 | 986.61 |

| Sl No | Item Code | Page No | Dscription. | Unit | Basic Rate | Lift charges | Total | AW @ 6% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
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| 17 | 4.6 | 12 | KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17) | Cum | 5,441.00 | | 5441.00 | 326.46 | 5767.46 | 151.11 | 5918.57 |
| 25 | 19.14 | 143 | KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17) | Cum | 46.00 | 100.00 | 146.00 | 8.76 | 154.76 | 4.05 | 158.81 |
| 26 | 20.18 | 158 | KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17) | Cum | 1,668.00 | | 1668.00 | 100.08 | 1768.08 | 46.32 | 1814.40 |
| 27 | 21.6 | 161 | KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17) | Sq-m | 26.00 | | 26.00 | 1.56 | 27.56 | 0.72 | 28.28 |

| Sl No | Item Code | Page No | Dscription. | Unit | Basic Rate | Lift charges | Total | AW @ 6% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 33 | 22.6.2 | 177 | Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing | Cum | 5,197.00 | | 5197.00 | 311.82 | 5508.82 | 144.33 | 5653.15 |
| 39 | 24.41 | 189 | KSRRB M800-35. Supply and Installation of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000kg tested in accordance to specification of category A of MORTH Circular No RW/NH/33023/10-97-Do III Dt 11.06.1997. The Height, width and length shall no exceed 50mm, 100mm, and 102mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30 mm) from the body is to be a minimum vakue of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and | No | 339.00 | | 339.00 | 20.34 | 359.34 | 9.41 | 368.75 |

| Sl No | Item Code | Page No | Dscription. | Unit | Basic Rate | Lift charges | Total | AW @ 6% | Total Rate | Add T.P (+) 2.62% | Final Rate. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | 19.64 | 149 | KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 . Item No 19.64, Page No 149 | Sqm | 5.00 | | 5.00 | 0.30 | 5.30 | 0.14 | 5.44 |
| 43 | 21.3 | 161 | KSRRB 500-3. Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH specification clause 501 | Sqm | 87.00 | | 87.00 | 5.22 | 92.22 | 2.42 | 94.64 |
| 48 | 18.54 | 139 | KSRRB M200-29. Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification No. 202 Item No 18.54. Page No 139 PWD SR 2018-19 | m | 42.00 | | 42.00 | 2.52 | 44.52 | 1.17 | 45.69 |
| 50 | 37.3 | 262 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint | Sqm | 659.00 | | 659.00 | 39.54 | 698.54 | 18.30 | 716.84 |

Consultant

Assistant Engineer.

Assistant Executive Engineer
Byatarayanapura Division
B.B.M.P
Bangalore.

Executive Engineer,
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